

FIG. 1

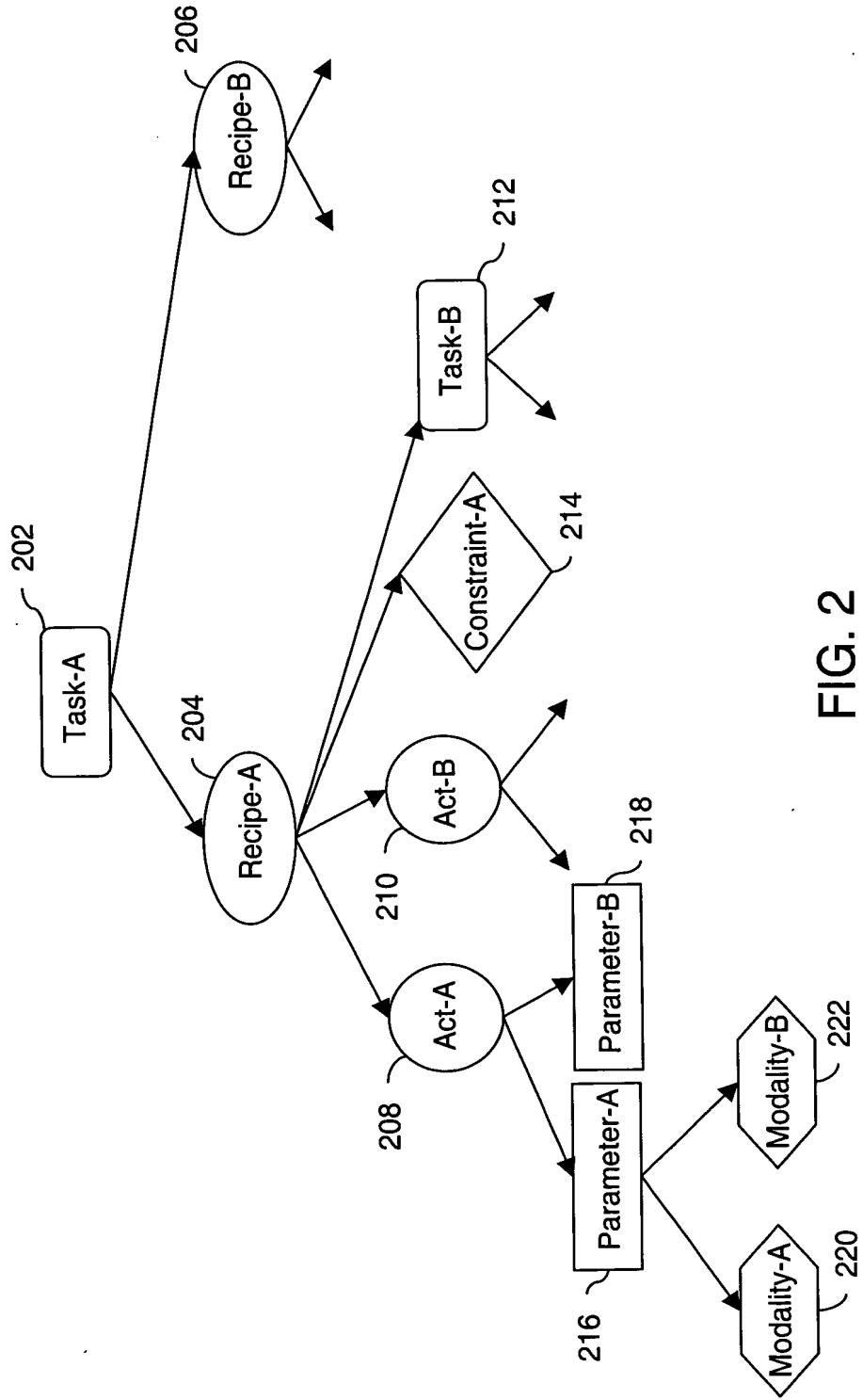


FIG. 2

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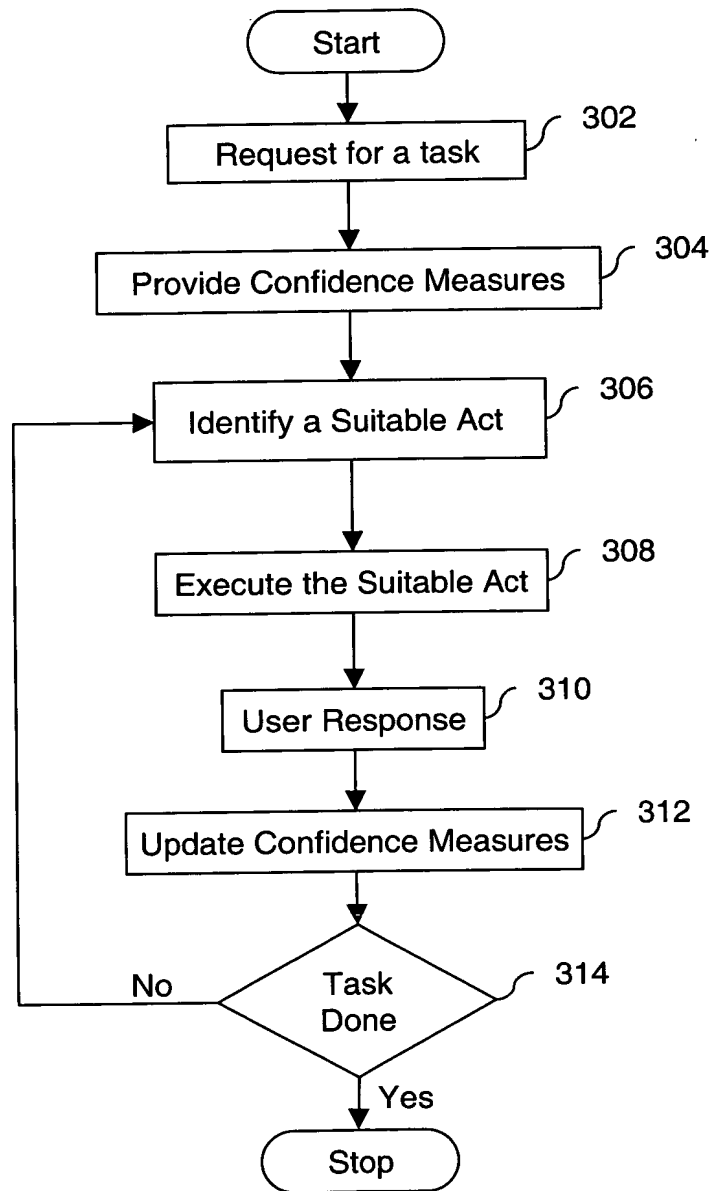


FIG. 3

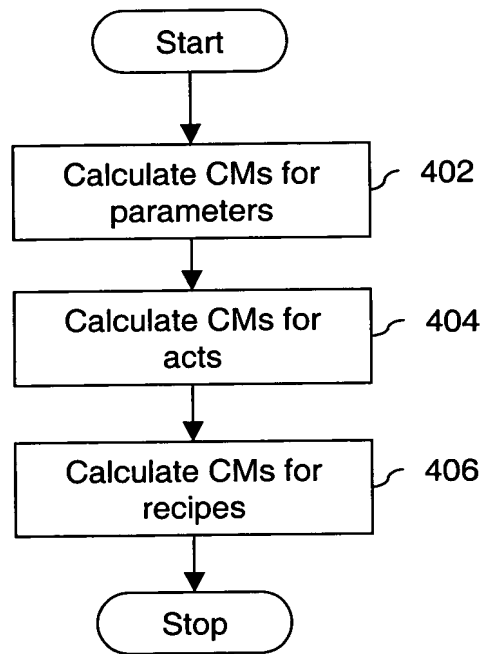


FIG. 4

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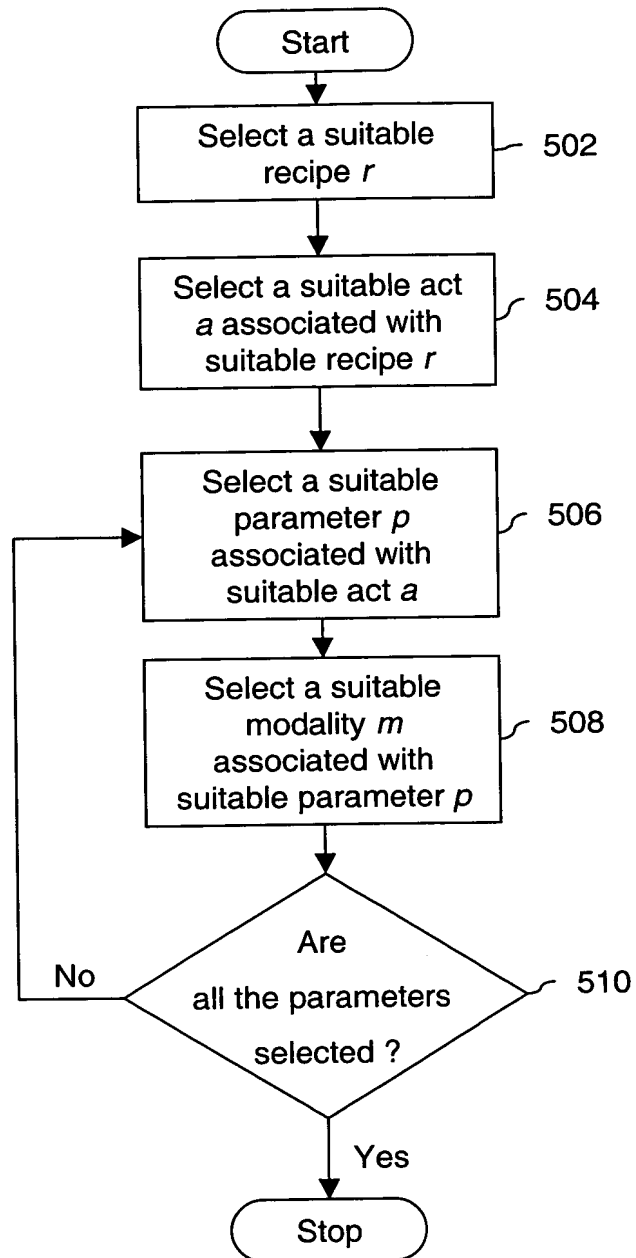


FIG. 5

Task: Find audio file		
Recipe_1	Act specify_song_name A1;	Parameter string <i>Song_Name1</i> ;
	Act specify_artist_name B1;	Parameter string <i>Artist_Name1</i> ;
	Act search_database C1;	
	Constraints	A1 precedes C1 B1 precedes C1
Recipe_2	Optional Act lyric_contains A2;	Parameter string <i>Lyric2</i> ;
	Act specify_year_of_release B2;	Parameter integer <i>Year2</i> ;
	Act specify_song_name C2;	Parameter string <i>Name2</i> ;
	Act search_database D2;	
	Constraints	A2 precedes D2; B2 precedes D2; C2 precedes D2;

FIG. 6

Calculation of Confidence Measures for Recipe_1			
Recipe_1 $RLCM1 = 0.85 \times 0.75 \times 1.0$	Act specify_song_name A1; $ALCM1 = 0.85$	Parameter string <i>Song_Name1</i> ; $PLCM1 = 0.5 \times 0.8 + 0.5 \times 0.9$	Speech: 0.8 Keyboard: 0.9
	Act specify_artist_name B1; $ALCM2 = 0.75$	Parameter string <i>Artist_Name1</i> ; $PLCM2 = 0.5 \times 0.8 + 0.5 \times 0.7$	Speech: 0.8 Keyboard: 0.7
	Act search_database C1; $ALCM3 = 1.0$		

FIG. 7